

# 2021 Report on South Dakota Bridges



Pierre – Fort Pierre Bridge

## As of NBI Federal Submittal in March 2021

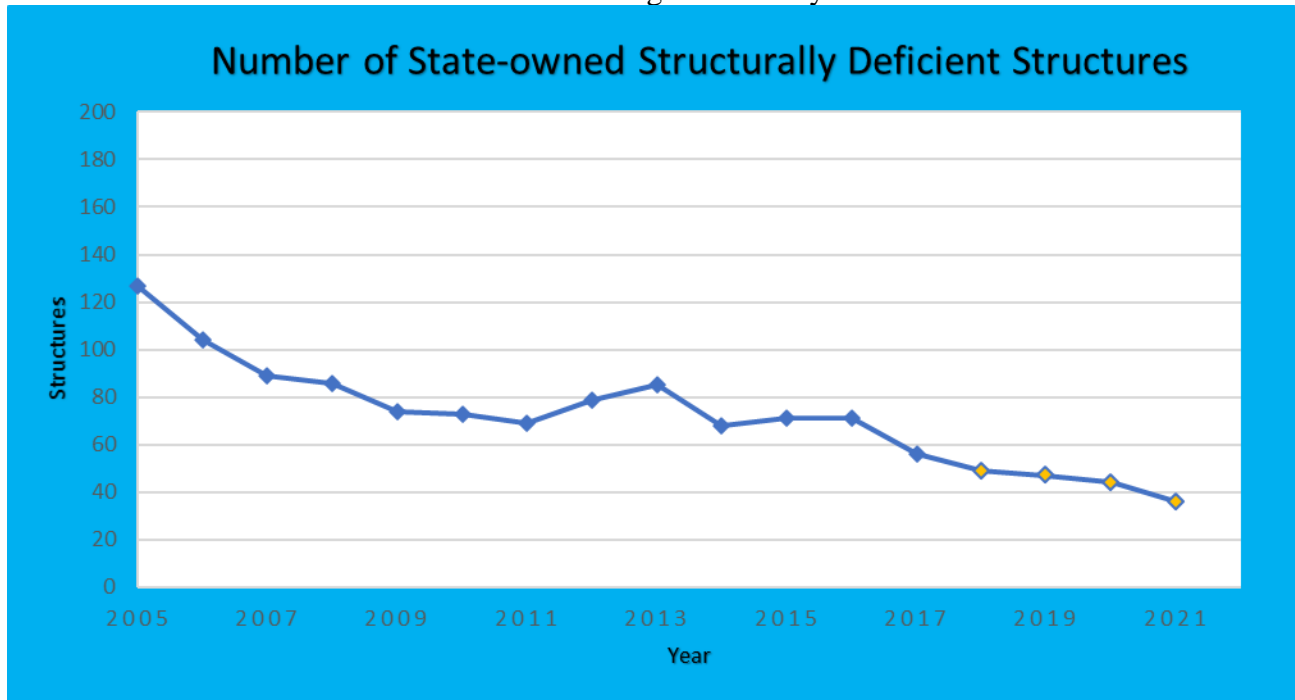
The South Dakota DOT owns 1811 bridge length (> 20 ft.) structures. Local government agencies (counties, cities, other governmental agencies, townships) own 3943 structures. Of the 1811 state owned structures, there are 1252 bridges and 559 culverts. Of the 3943 LGA structures, there are 2993 bridges and 950 culverts.

The 1252 state owned bridges account for 10,853,517 sq. ft of deck area and the 2993 locally owned bridges account for 7,074,989 sq. ft of deck area. The average state-owned bridge was built in 1973 and is approximately 41 ft wide by 210 ft long.

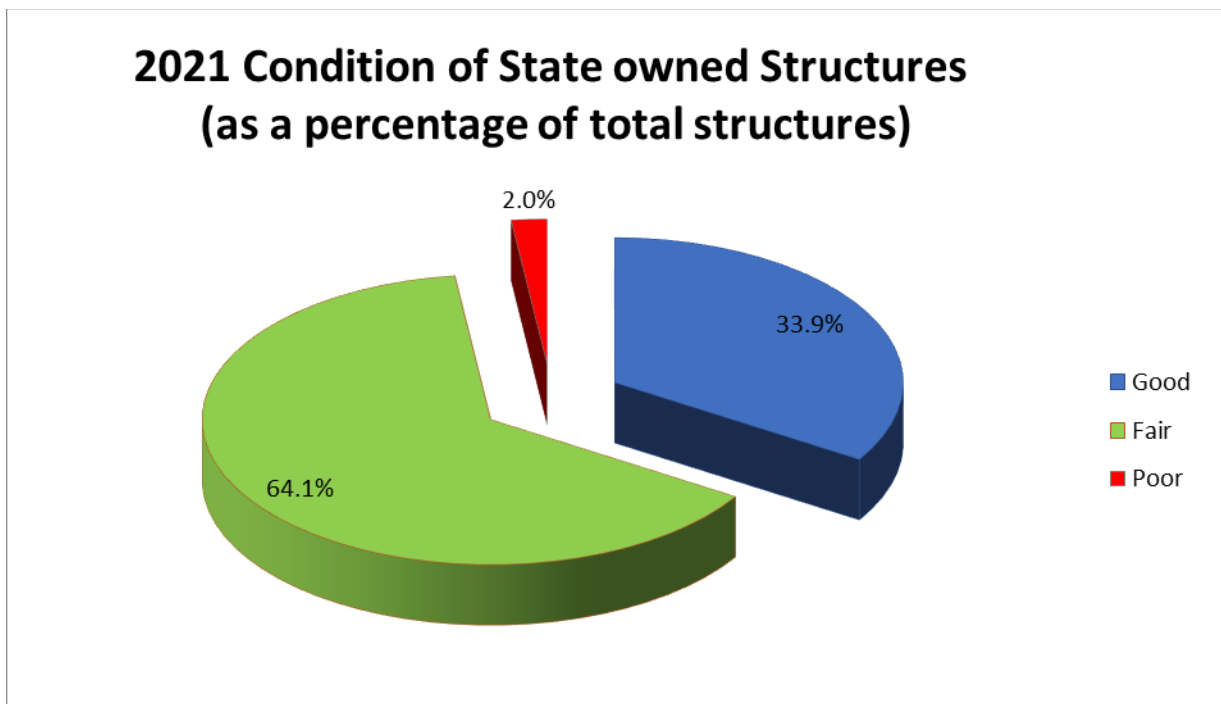
There are 9 major Missouri River highway bridge crossings in South Dakota. Two are maintained by Nebraska DOT, and seven are maintained by South Dakota. The seven structures managed by South Dakota total 914,419 sq ft of deck area. This is approximately 8.4% of the state-owned bridge deck area. Four of these bridges are in the Mitchell Region and the other three are in the Pierre Region. The Nebraska DOT manages the bridges on the SD 37 crossing at Running Water and the US 81 crossing at Yankton.

The average Missouri River Bridge is approximately 3,350 feet long. The longest bridge in the state is the Platte-Winner Bridge on SD 44 over Lake Francis Case Reservoir and is 5,656 feet long.

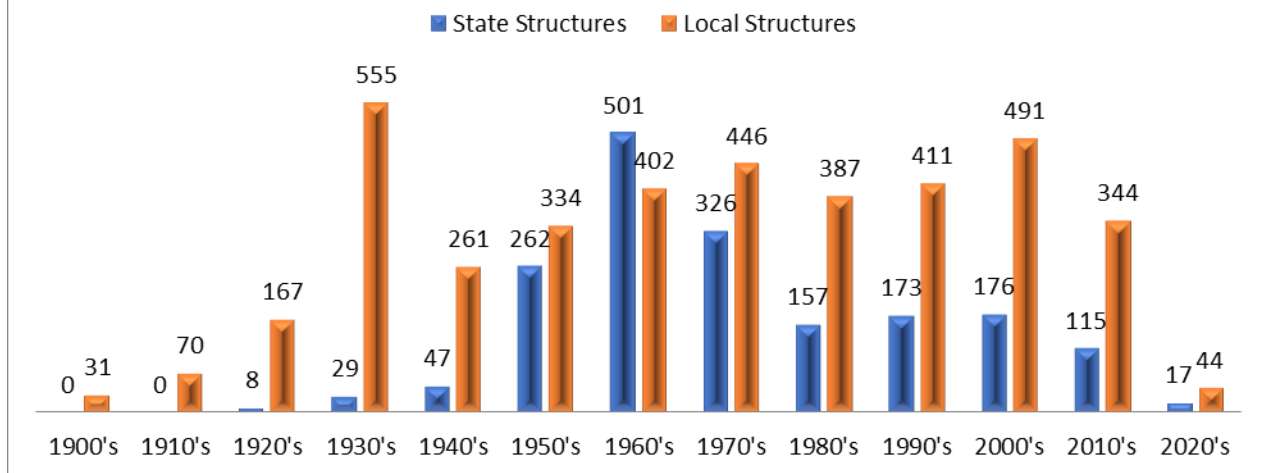
## Recent SDDOT Bridge Deficiency Trends



Currently there are 36 structurally deficient structures which account for 2.0% of the SDDOT bridge inventory. In 2018 the requirements that cause a bridge to be structurally deficient changed. Now the definitions for poor condition and structurally deficient are identical.



## Current Structures Built in South Dakota by Decade of Original Construction



Most bridges in the state are inspected every two years. South Dakota received approval from FHWA based upon 23 CFR 650 to inspect some of the bridges every 4 years. Currently there are 416 structures eligible for 4-year inspections. These structure types are generally those that do not change or deteriorate very fast. All major Missouri River bridge crossings are inspected every year, except the SD 19 bridge over the Missouri River which was built in 2001. Bridges that require underwater inspections are inspected every 5 years by an underwater inspection consultant who inspects the underwater portions of the bridge. The Missouri River bridges are scheduled for underwater inspections in 2022 with the remainder of the underwater structure inspections scheduled for the summer of 2023.

### Inspection Frequency of State Structures

Frequency	Bridges	NBI Culverts	Total
12 months	7	0	7
24 months	1204	184	1388
48 months	41	375	416
Total	1252	559	1811

### Miscellaneous Statistics

	Bridges	NBI Culverts	Total
<b>On Interstate System</b>	578	52	630
<b>On Interstate Mainline</b>	405	41	446
<b>Structures over Water</b>	764	524	1288

### Border Bridge Details

Highway	Feature Intersected	Border Agency	SD Str Number	Border State Structure Number	State that Maintains Inventory
I 29 N	Big Sioux River	Iowa	64-165-405	000000000053930	South Dakota
I 29 S	Big Sioux River	Iowa	64-164-405	000000000053941	South Dakota
SD 50	Big Sioux River	Iowa	64-086-223	000000000039650	Iowa
SD 48	Big Sioux River	City of Akron	64-122-170	000000000603911	South Dakota
SD 46	Big Sioux River	Iowa	64-160-023	000000000048451	Iowa
US 18	Big Sioux River	Iowa	42-201-136	000000000034481	Iowa
SD 19	Missouri River	Nebraska	14-104-249	00000S015 20985	South Dakota
SD 37	Missouri River	Nebraska	05-090-279	00000S014 20330	Nebraska
US 81	Missouri River	Nebraska	68-120-210	00000S081 21489	Nebraska